

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU02/01162

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>												
Int. Cl. <sup>7</sup> : B41J 2/045, 2/05, B81B 7/02, 7/04												
According to International Patent Classification (IPC) or to both national classification and IPC												
<b>B. FIELDS SEARCHED</b>												
Minimum documentation searched (classification system followed by classification symbols)												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI & IPC -B41J 2/-, B81B & keywords (nozzle, wafer, area, circuit, displace and similar keywords); USPTO & ESPACE and similar keywords to those above												
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	Derwent Abstract Accession No. 2000-405730/35, Class P75;T04, JP 2000141656 A (RICOH KK) 23 May 2000 See abstract	1,4,5										
X	US 6378989 B (SILVERBROOK) 30 April 2002 See abstract and figure	1,4,5										
X	US 6258284 B (SILVERBROOK) 10 July 2001 See abstract and figure	1,4,5										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 31 October 2002		Date of mailing of the international search report 06 NOV 2002										
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  STEPHEN CLARK Telephone No : (02) 6283 2781										

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 200178986 A (SILVERBROOK) 25 October 2001 See abstract and figure	1,4,5
X	WO 200102181 A (SILVERBROOK) 11 January 2001 See abstract and figure  It is to be noted that many other Silverbrook cases fall within the scope of these claims and disclose similar features to those cited above.	1,4,5

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## Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

### Continuation of Box No:

Note:- Claim 1 is not fairly based on the description or Abstract. It defines the area of the displacement surface as being between two and ten times the area of the ink ejection port, however, the description (at pages 13 and 20) has the displacement area as being greater than half the area of the ink ejection port but less than twice the area. This is repeated in the Abstract. (It is also to be noted that the figure chosen by the applicant to accompany the abstract was figure 28b, however this figure is not described and is supposedly similar to figures 19-21. Figure 30 appears to be relevant as well, particularly in relation to the page 20 discussion of displacement areas).

The restriction of two to ten times the area found in claim is regarded as being extremely broad and hence the documents cited fall within the scope of this claim, rather than in all cases within the scope of the abstract and description.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU02/01162

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member
JP	2000141656	NONE
US	6378989	SILVERBROOK CASES GENERALLY HAVE TOO MANY EQUIVALENTS TO LIST AND ARE DIFFICULT TO ASCERTAIN WHICH EMBODIMENTS RELATE TO PARTICULAR FEATURES OF THE DOCUMENT CITED. THEY HAVE BEEN OMITTED FOR THE SAKE OF BREVITY AND CONCISENESS
US	6258284	AS ABOVE
WO	200178986	AS ABOVE
WO	2001/02181	AS ABOVE
END OF ANNEX		

DT03 Rec'd PCT/PTO 05 OCT 2004

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The PTO did not receive the following  
listed item(s) *No Post Card*